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## 1 Routine/Function Prologues

### 1.0.1 clm2\_setup.F90 (Source File: clm2\_setup.F90)

Completes the CLM2 setup routines.

#### REVISION HISTORY:

20 Jan 2003 Sujay Kumar Initial Specification

#### INTERFACE:

```
subroutine clm2_setup()
```

#### USES:

```
use lisdrv_module, only: lis, tile
use spmdMod
use time_manager
use clm_varder
use clm_varcon, only: eccen, obliqr, lambm0 , mvelpp
use clm_varctl, only: nsrest
```

#### CONTENTS:

```
#if ( ! defined OPENDAP )
    if ( masterproc ) then
#endif

! -----
! Get current date
! -----


    if ( masterproc ) then
        call get_curr_date(yr, mon, day, ncsec)
    endif
! -----


    ! If initial run: initialize time-varying data
    ! If continuation run: end of initialization because time varying
    ! read in from restart file
    ! -----


    if (nsrest == 0) then
        call canhtset()
        if (masterproc) then
            write (6,*) ('Attempting to initialize time variant variables .....')
        endif

        readini = .false.
        call iniTimeVar (readini, eccen, obliqr, lambm0 , mvelpp, lis, tile)
```

```

        if (masterproc) then
            write (6,*) ('Successfully initialized time variant variables')
            write (6,*)
        endif

    endif

! -----
! End initialization
! -----


if (masterproc) then
    write (6,*) ('Successfully initialized the land model')
    if (nsrest == 0) then
        write (6,*) 'begin initial run at: '
    else
        write (6,*) 'begin continuation run at:'
    end if
    write (6,*), nstep= ,get_nstep(), &
        , year= ,yr, month= ,mon, day= ,day, seconds= ,ncsec
    write (6,*)
    write (6, '(72a1)') ("*",i=1,60)
    write (6,*)
endif
clm%totfsa=0.          ! solar absorbed solar radiation [W/m2]
clm%toteflx_lwrad_net=0. ! net longwave radiation [W/m2]
clm%toteflx_lh_tot=0.   ! total latent heat flux [W/m2]
clm%toteflx_sh_tot=0.   ! total sensible heat flux [W/m2]
clm%toteflx_soil_grnd=0. ! ground heat flux [W/m2]
clm%totqflx_snomelt=0. ! snowmelt heat flux [W/m2]
clm%totrain=0.          ! accumulation of rain [mm]
clm%totsnow=0.           ! accumulation of snow [mm]
clm%totqflx_evap=0.      ! total evaporation [mm]
clm%totqflx_surf=0.       ! surface runoff [mm]
clm%totqflx_drain=0.      ! subsurface runoff [mm]
clm%totqflx_ecanop=0.     ! interception evaporation [W/m2]
clm%totqflx_tran_veg=0.
clm%totqflx_evap_grnd=0.
clm%totqflx_sub_snow=0.
clm%count=0
clm%acond=0.

#if ( ! defined OPENDAP )
endif
if ( npes > 1 ) then
    call clm2_scatter
endif
#endif

```

```
return
```